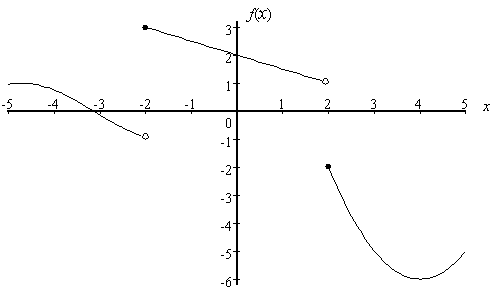
**Pre Cal Reg Name:**

**Final Exam Review #3 Date:**



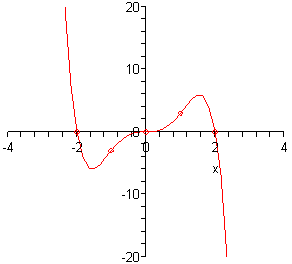
|  |  |
| --- | --- |
| 1. What is the domain of the graph? | 2. What is the range of the graph? |
| 3. Identify the intervals on which the graph is decreasing linearly. | 4. What defines a function? How can you tell from the graph? |
| 5. Find the value of:  f( -2 )=  f( 0 ) =  f( 2 )=  f(4) = | 6. Find all values for x where:  f(x) = 0  f(x) = -1  f(x) = -5 |

**7. Find the inverse of the following function:**

**Find the x- intercepts by factoring**

|  |  |  |
| --- | --- | --- |
| 8. f(x) = x2 – x – 56 | 9. f(x) = 18x2 + 9x + 1 | 10. f(x) = 4900 – 36x2 |

**11. Write a factored form equation for the following function below.**



**12. Sketch a graph of f(x) = -4(x+3)3(x)2(x-2)**

**Solve the following rational equations.**

|  |  |
| --- | --- |
| 13. | 14. |

**15. Find the features of the following rational function**

|  |
| --- |
| y – intercepts  x – intercepts  Holes:  Vertical Asymptotes: |

**Rewrite each equation using logs or exponents.**

|  |  |
| --- | --- |
| 16. 43 = 48 | 17. Ln (148.413)=5 |

**18.** Sketch the following angle and identify the quadrant it lies in.

**Convert degress to radians and back**

|  |  |
| --- | --- |
| 19. | 20. 130º |

**Find a coterminal angle between 0 and 2π for each of the following.**

|  |  |
| --- | --- |
| 21. | 22. |